
High Performance Sustainable Building Guide - Team Charter

Background

DOE Order 413.3A, *Program and Project Management for the Acquisition of Capital Assets*, establishes requirements for the incorporation of high performance sustainable building in the management of capital asset acquisitions involving new construction and major renovation of facilities.

DOE is responsible for operation and management of approximately 12,000 buildings at more than 45 major sites with total floor space of over 96 million square feet. Through the application of HPSB principles pursuant to the Order, line managers will realize a number of mission, energy security and environmental benefits including:

- reduce the total (life-cycle) ownership cost of facilities;
- improve energy efficiency and water conservation;
- provide safe, healthy, and productive built environments; and;
- enhance sustainable environmental stewardship at DOE sites.

Purpose

The purpose of this guide, *High Performance Sustainable Building*, is to assist line managers with incorporating the principles of high performance sustainable building (HPSB) for energy efficiency optimization and sustainable environmental stewardship into the project management requirements of the Order. In particular, the guide will provide a discourse on the HPSB principles and guidance on their incorporation into the Critical Decisions (CD) associated with the planning, design, construction, and commissioning of new facilities and major renovations of existing facilities.

Guide Scope

As indicated above, DOE O 413.3A requires the inclusion and documentation of HPSB principles in the CDs associated with the management of capital assets acquisitions involving new construction and major renovation of DOE facilities. The guide will provide line managers with guidance on incorporating the HPSB principles into the critical decision process to comply with the Order's requirement.

The HPSB principles derive from an Executive Office of the President Memorandum of Understanding (MOU) on *Federal Leadership in High Performance and Sustainable Buildings*, in which signatory agencies committed to follow a set of principles in the design, construction and commissioning of federal buildings. The principles, which form the core of the guide, are as follows:

- employ integrated design;
- optimize energy performance;
- protect and conserve water;
- enhance indoor environmental quality, and;
- reduce environmental impact of construction materials.

The scope of the guide does not include the level of detail that would be found in an architect and engineering (A&E) plan or instrument, although useful references to A&E-related sources of information, standards, and specifications will be provided when applicable or otherwise appropriate.

Key Interfaces and Dependencies

The HPSB guide will interface with the following:

- Energy Policy Act of 2005, Section 109, *Federal Building Performance Standards* requires sustainable design principles be applied to the siting, design, and construction of all new and replacement buildings.
- (New) Executive Order 13423, *Strengthening Federal Environmental, Energy, and Transportation Management* requires compliance with the HPSB principles in construction of new and major renovation of existing Federal buildings.
- DOE Order 450.1, Chg 3, *Environmental Protection Program* establishes pollution prevention and sustainable environmental stewardship goals for the Department and provides strategies for achieving the goals. Strategies for achieving the sustainable environmental stewardship goal in the Order include applying sustainable building design criteria when planning and constructing new facilities or modifying existing facilities to optimize life-cycle costs, reduce pollution, minimize energy consumption, conserve water, and enhance indoor air quality, and worker safety and productivity.
- DOE Order 430.2A, *Departmental Energy and Utilities Management* requires DOE energy and utilities management to be integrated with other DOE facilities management processes over the facilities' entire life cycles. It establishes energy efficiency leadership goals that apply to energy and utilities management using a life cycle cost-effective approach.
- Executive Office of the President, *Federal Leadership in High Performance and Sustainable Buildings Memorandum of Understanding*, which DOE signed in January 2006, establishes a set of principles in the design, construction and commissioning of federal buildings that employ integrated design, conserve energy and water, enhance indoor environmental quality, and reduce environmental impact of construction materials

Team Membership, Roles & Estimated Resource Requirements

Core team members developing this guide are as follows:

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* The *ad hoc* Sustainable Building Working Group will review and comment on drafts of the guide.

Schedule

This guide will be developed, reviewed through two drafts, coordinated through the REVCOM process (after Steering Committee approval) and published by **July, 2008**. A detailed schedule (plan of action and milestones) will be updated monthly and provided to OECM.

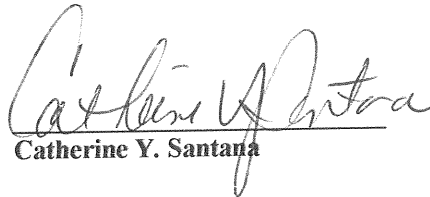
Charter Approvals:

Government Guide
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5/24/07
Date

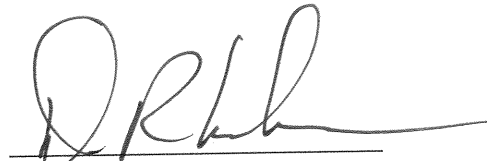
O 413.3A Guide
Steering Committee
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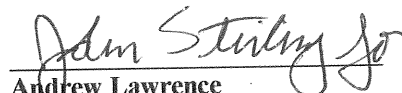
4-18-07
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